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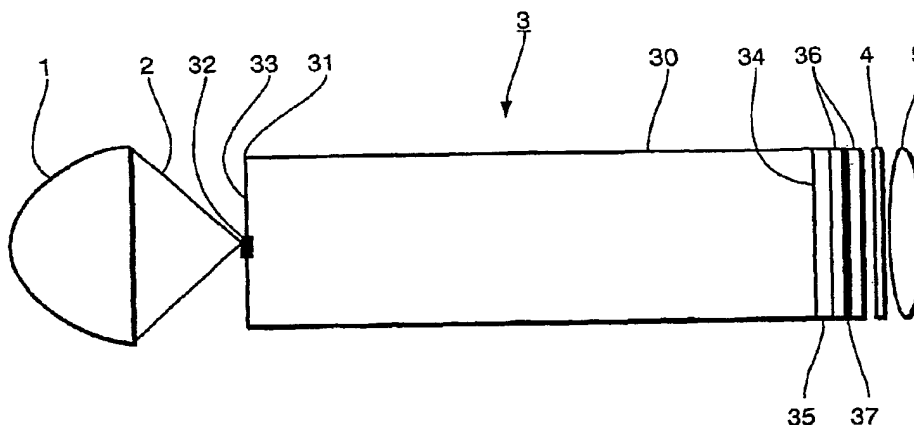
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(54) Title: PROJECTION DEVICE HAVING AN INCREASED EFFICIENCY



(57) Abstract: The invention relates to a projection device for projecting an image, comprising a light source (1), a LCD projection subsystem (3) and a projection means (4, 5) for projecting the image. A small-sized and low-cost projection device is proposed wherein said projection subsystem comprises: a waveguide integrator (30) for guiding light from an entrance (31) to an exit (34), the inner entrance surface (33) of said integrator (30) being coated with a reflective material and having a hole (32) for coupling light emitted from said light source (1) into said integrator (30), a reflective polarizer (35) provided at the exit surface (34) of said integrator (30) for reflecting light having the wrong polarization back into said integrator (30), a transmissive LCD (36) provided at the exit of said reflective polarizer (35) for modulating the light transmitted by said polarizer (35), said LCD (36) having an integrated reflective color filter array (37) for reflecting light having the wrong color back into said integrator (30).

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